Primary lithium battery LS 17500

3.6 V Primary lithium-thionyl chloride (Li-SOCl₂) High energy density A-size bobbin cell



Benefits

- · High and stable operating voltage
- Low self-discharge rate (less than 1% after 1 year of storage at +20°C)
- Wide operating temperature range (-60/+85°C)
- Easy integration in compact system

Key features

- Stainless steel container and end caps (low magnetic signature)
- Non-flammable electrolyte
- Underwriters Laboratories (UL)
 Component Recognition
 (File Number MH 12609)
- Compliant with IEC 86-4 safety standard and EN 50020 intrinsic safety standard
- Non-restricted for transport

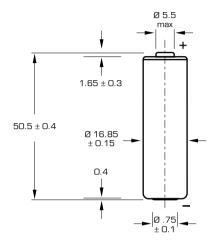
Main applications

- Utility metering
- Automatic meter reading
- Alarms and security devices
- Tollgate systems
- Identification tags
- Tracking systems
- Automotive electronics
- Professional electronics

Cell size refer	ence		A
Electrical charact	teristics		
(typical values relative	e to cells stored for one year or	r less at +30°C ma.	x.}
	OV cut off. The capacity restore drain, temperature and cut off		3.6 Ah
Open circuit voltage	(at +20°C)		3.67 V
Nominal voltage	(at 0.3 mA +20°C)		3.6 V
undischarged cells wi 3.0 V. The readings i temperature, and the	ally up to 250 mA d pulses, drained every 2 mn a ith 10 µA base current, yield vo may vary according to the pulse e cell's previous history. Fitting t d in severe conditions. Consult	oltage readings abo e characteristics, th the cell with a capa	ne
Continuous current permitting 50% of the nominal capacity to be achieved at +20°C with 2.0 V cut off. (Higher currents possible, consult Saft)			130 mA
Storage	(recommended) (for more severe conditions,	consult Saft)	+30°C (+86°F) max
Operating temperature range			- 60°C/+ 85°C
(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)			(- 76°F/+ 185°F)
Physical characte	eristics		
Diameter <i>(max)</i>			17.0 mm (0.67 in)
Height <i>(max)</i>			50.9 mm (2.00 in)
Typical weight			21.9 g (O.8 oz)
Li metal content			approx. 0.9 g
Available termination	suffix CN, CNR 2 PF, 3 PF, 3 PF RP, 4 PF CNA (AX) FL	radial tabs radial pins axial leads flying leads eto	·.



LS 17500



Dimensions in mm.

Storage

 The storage area should be clean, cool (not exceeding + 30°C), dry and ventilated.

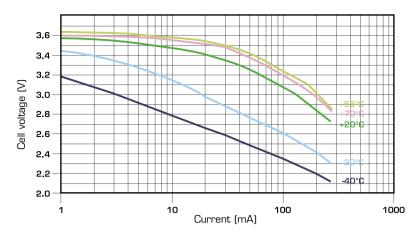
Warning

- Fire, explosion and severe burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above 100°C (212°F), incinerate, or expose contents to water.
- Do not solder directly to the cell (use tabbed cell versions instead).

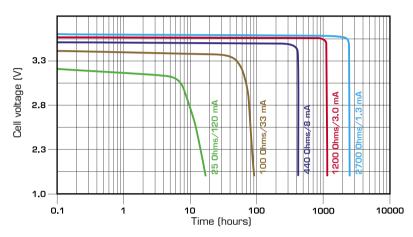
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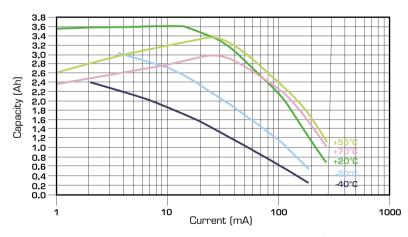
www.saftbatteries.com



Voltage plateau versus Current and Temperature (at mid-discharge)



Typical discharge profiles at + 20°C



Restored Capacity versus Current and Temperature (2.0 V cut off)

Doc. Nº 31029-2-0706

Information in this document is subject to change without notice and becomes contractual only after written confirmation by Saft.

For more details on primary lithium technologies please refer to Primary Lithium Batteries Selector Guide Doc $N^{\rm o}$ 31048-2.

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